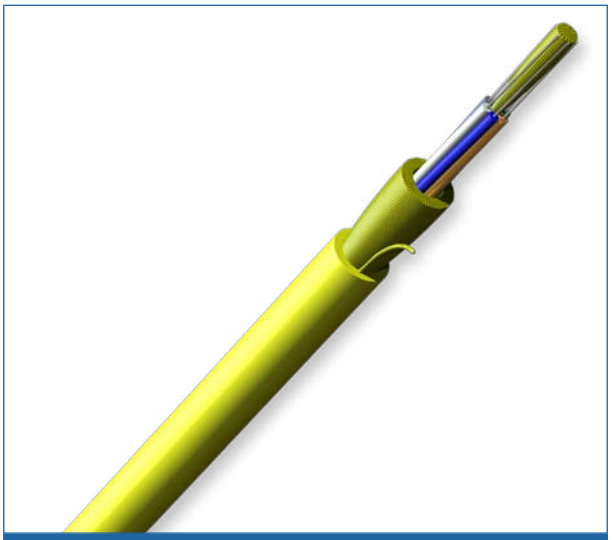
MIC® Tight-Buffered Cable, Plenum

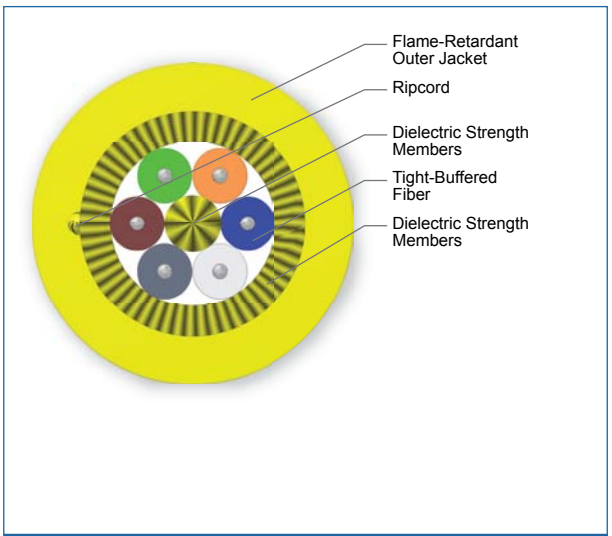
6 F, Single-mode (OS2)

CORNING

Corning Cable Systems MIC® Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multi-fiber cables use 900 µm TBII® Buffered Fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket. The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.



Part Number: 006E88-31131-29



Cross Section of Part Number: 006E88-31131-29

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable

Standards

Approval and Listings	National Electrical Code® (NEC) OFNP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

RoHS COMPLIANT

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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	Single-mode (OS2)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central element	Yarn
Fiber Count	6
Tight buffer color	Blue, Orange, Green, Brown, Slate, White
Tensile strengths elements / armoring - Layer 1	Dielectric strength members
Number of Ripcords	1
Outer jacket material	Flame-retardant
Outer jacket color	Yellow

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Nominal Outer Diameter	5.3 mm (0.21 in)
Weight	27 kg/km (19 lb/1000 ft)
Min. Bend Radius Installation	80 mm (3.2 in)
Min. Bend Radius Operation	27 mm (1.1 in)

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Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	8.2 µm
Fiber Type	Single-mode
Fiber Category	OS2
Fiber Code	E
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / 0.5 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

* ITU-T G.652 D compliant

Notes: 1) Improved attenuation and bandwidth options available
2) Bend-insensitive single-mode fibers available on request
3) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Order Number	006E88-31131-29
Product description	MIC® Tight-Buffered Cable, Plenum, 6 F, Single-mode (OS2)

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